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RAW SEQUENCE LISTING DATE: 01/10/2002
PATENT APPLICATION: US/10/000,213 TIME: 15:56:00

Input Set : A:\RTS-0327 Sequence Listing.txt
Output Set: N:\CRF3\01102002\J000213.raw

[srJ000213.htm](#)

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70	Arg Ser Met Lys Arg Lys Ala Leu Phe Thr Cys Pro Phe Asn Gly Asp				
71	50	55	60	65	
73	tgc cgc atc acc aag gac aac cga cgc cac tgc cag gcc tgc cgg ctc	358			
74	Cys Arg Ile Thr Lys Asp Asn Arg Arg His Cys Gln Ala Cys Arg Leu				
75	70	75	80		
77	aaa cgc tgt gtg gac atc ggc atg atg aag gag ttc att ctg aca gat	406			
78	Lys Arg Cys Val Asp Ile Gly Met Met Lys Glu Phe Ile Leu Thr Asp				
79	85	90	95		
81	gag gaa gtg cag agg aag cgg gag atg atc ctg aag cgg aag gag gag	454			
82	Glu Glu Val Gln Arg Lys Arg Glu Met Ile Leu Lys Arg Lys Glu Glu				
83	100	105	110		
85	gag gcc ttg aag gac agt ctg cgg ccc aag ctg tct gag gag cag cag	502			
86	Glu Ala Leu Lys Asp Ser Leu Arg Pro Lys Leu Ser Glu Glu Gln Gln				
87	115	120	125		
89	cgc atc att gcc ata ctg ctg gac gcc cac cat aag acc tac gac ccc	550			
90	Arg Ile Ile Ala Ile Leu Leu Asp Ala His His Lys Thr Tyr Asp Pro				
91	130	135	140	145	
93	acc tac tcc gac ttc tgc cag ttc cgg cct cca gtt cgt gtg aat gat	598			
94	Thr Tyr Ser Asp Phe Cys Gln Phe Arg Pro Pro Val Arg Val Asn Asp				
95	150	155	160		
97	ggt gga ggg agc cat cct tcc agg ccc aac tcc aqa cac act ccc agc	646			
98	Gly Gly Gly Ser His Pro Ser Arg Pro Asn Ser Arg His Thr Pro Ser				
99	165	170	175		
101	ttc tct ggg gac tcc tcc tcc tgc tca gat cac tgt atc acc tct	694			
102	Phe Ser Gly Asp Ser Ser Ser Cys Ser Asp His Cys Ile Thr Ser				
103	180	185	190		
105	tca gac atg atg gac tcg tcc agc ttc tcc aat ctg gat ctg agt gaa	742			
106	Ser Asp Met Met Asp Ser Ser Phe Ser Asn Leu Asp Leu Ser Glu				
107	195	200	205		
109	gaa gat tca gat gac cct tct gtg acc cta qag ctg tcc cag ctc tcc	790			
110	Glu Asp Ser Asp Asp Pro Ser Val Thr Leu Glu Leu Ser Gln Leu Ser				
111	210	215	220	225	
113	atg ctg ccc cac ctg gct gac ctg gtc agt tac agc atc caa aag gtc	838			
114	Met Leu Pro His Leu Ala Asp Leu Val Ser Tyr Ser Ile Gln Lys Val				
115	230	235	240		
117	att ggc ttt gct aag atg ata cca gga ttc aga gac ctc acc tct gag	886			
118	Ile Gly Phe Ala Lys Met Ile Pro Gly Phe Arg Asp Leu Thr Ser Glu				
119	245	250	255		
121	gac cag atc qta ctg ctg aag tca agt gcc att gag gtc atc atg ttg	934			
122	Asp Gln Ile Val Leu Leu Lys Ser Ser Ala Ile Glu Val Ile Met Leu				
123	260	265	270		
125	cgc tcc aat gag tcc ttc acc atg gac gac atg tcc tgg acc tgt ggc	982			
126	Arg Ser Asn Glu Ser Phe Thr Met Asp Asp Met Ser Trp Thr Cys Gly				
127	275	280	285		
129	aac caa gac tac aag tac cgc gtc agt gac gtg acc aaa gcc gga cac	1030			
130	Asn Gln Asp Tyr Lys Tyr Arg Val Ser Asp Val Thr Lys Ala Gly His				
131	290	295	300	305	
133	aqc ctg gag ctg att gag ccc ctc atc aag ttc cag gtg gga ctg aag	1078			
134	Ser Leu Glu Leu Ile Glu Pro Leu Ile Lys Phe Gln Val Gly Leu Lys				

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135	310	315	320	
137	aag ctg aac ttg cat gag gag gag cat gtc ctg ctc atg gcc atc tgc			1126
138	Lys Leu Asn Leu His Glu Glu Glu His Val Leu Leu Met Ala Ile Cys			
139	325	330	335	
141	atc gtc tcc cca gat cgt cct ggg gtg cag gac gcc gcg ctg att gag			1174
142	Ile Val Ser Pro Asp Arg Pro Gly Val Gln Asp Ala Ala Leu Ile Glu			
143	340	345	350	
145	gcc atc cag gac cgc ctg tcc aac aca ctg cag acg tac atc cgc tgc			1222
146	Ala Ile Gln Asp Arg Leu Ser Asn Thr Leu Gln Thr Tyr Ile Arg Cys			
147	355	360	365	
149	cgc cac ccg ccc ccg ggc agc cac ctg ctc tat gcc aag atg atc cag			1270
150	Arg His Pro Pro Pro Gly Ser His Leu Leu Tyr Ala Lys Met Ile Gln			
151	370	375	380	385
153	aag cta gcc gac ctg cgc agc ctc aat gag gag cac tcc aag cag tac			1318
154	Lys Leu Ala Asp Leu Arg Ser Leu Asn Glu Glu His Ser Lys Gln Tyr			
155	390	395	400	
157	cgc tgc ctc tcc ttc cag cct gag tgc agc atg aag cta acg ccc ctt			1366
158	Arg Cys Leu Ser Phe Gln Pro Glu Cys Ser Met Lys Leu Thr Pro Leu			
159	405	410	415	
161	gtg ctc gaa gtg ttt ggc aat gag atc tcc tga ctaggacagc ctgtgcggtg			1419
162	Val Leu Glu Val Phe Gly Asn Glu Ile Ser			
163	420	425		
165	cctgggtgg gctgtcctc cagggccacg tgccaggccc ggggctggcg gctactcagc			1479
166	agccctcctc acccgctctgg ggttcagccc ctccctcgcc acctcccccta tccacccagc			1539
167	ccattctctc tcctgtccaa cctaaccctt ttccctgcggg cttttccccg gtcctttag			1599
168	acctcagcca tgaggagttt ctgtttgtt gacaaagaaa cccaaagtggg ggcagaggc			1659
169	agaggcgtgaa ggcaggcctt gcccagagat gcctccaccc ctgcctaagt gyctgctgac			1719
170	tgtatgttag ggaacagaca ggagaaatgc atccatttcct cagggacaga gacacctgca			1779
171	cctcccccca ctgcaggccc cggttgtcca ggccttagtgg ggtctccct ctcctgcctt			1839
172	actcacgata aataatcgcc ccacagctcc caccacccaccc cttcagtc ccaccaacat			1899
173	cccatgtccc tggtatatt ctcacggca gtagctgtgg tgagggtggg tttttccca			1959
174	tcactggagc accaggcacg aacccacctg ctgagagacc caaggaggaa aaacagacaa			2019
175	aaacagcctc acagaagaat atgacagctg tccctgtcac caagtcacaca gttcctcgcc			2079
176	ctgggtctaa ggggtgggtt gaggtggaaag ccctccttcc acggatccat gtagcaggac			2139
177	tgaattgtcc ccagtttgca gaaaagcacc tgccgacctc gtcctcccc tgcctgtcc			2199
178	ttacctctg cccaggagag ccagccctcc ctgtcttcctt cggatcaccc agatgtccg			2259
179	agagectgt ccccccacccc ctcccccaggag gagagggtct ggagaagcag tgagccgcat			2319
180	cttctccatc tggcagggtt ggtatggagga gaagaatttt cagacccca cggtctgttc			2379
181	atgatctccc tgccctca atgtgggtgc aaggccgtg ttccaccacag ggctaaagac			2439
182	taggctgcgg caccccaagag tggggaaagg gagagcgggg cagtctggg tggtagtca			2499
183	gagagagtgt ttgggggttc cgtgtatgtt ggttaagggtc ttttttatttc tcactccacc			2559
184	acccaaaagt caaaaagggtc ctgtgaggca ggggggggt gataacaactt caagtgcata			2619
185	ctctctgcag gtcgagccca gcccacgtgg tggggaaaggct ctgtccgtt actccaagg			2679
186	gggtctttgt gagagtggac tggtaggtgtt cgggaccgg acagaaaggc gttttcgag			2739
187	gtggatcaca gaggcttctt cagatcaatg cttgatgtt gaatcggccg cattccctga			2799
188	gtcaccaggaa atgttaaagt cagtgaaac gtgactgccc caactcctgg aagctgtgtc			2859
189	cttgcacccgt catccgtatg tccctgaaaa cccagagagg aatcagactt cacactgcaa			2919
190	gagccttggt gtcccacctgg ccccatgtct ctcagaattt ttcaggtggaaaacatctg			2979
191	aaagccacgt tccttactgc agaatagcat atatatcgat taatctaaa tttatttagat			3039

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192 atgagttgtt ttcagactca gactccattt gtattatagt ctaatataca gggtagcagg	3099
193 taccactgat ttggagatat ttatgggggg agaacttaca ttgtgaaact tctgtacatt	3159
194 aattattatt gctgttgtt ttacaagg gtctagggag agacccttgtt ttgatttttag	3219
195 ctgcagaact gtattggtcc agcttgctc tcagtggag aaaaacactt gtaagttgct	3279
196 aaacgagtc aatcccctcat tcagaaaaac tgacagagga gggcgtgact caccaagcc	3339
197 atatataact agctagaagt gggccaggac aggccggcg cggtggctca cgcctgtat	3399
198 cccagcagg tggaggtcg aggttagttt atcacctgag gtcgggagtt cgagaccaac	3459
199 ctgaccaaca tggagaaacc ctgtcttat taaaaataca aaaaaaaaaa aaaaaaaaaa	3519
200 tagccggca tggtgccca agcctgtat cccagctact caggaggctg aggcagaaga	3579
201 attgaaccca gga:jgtggag gttgcagtga gctgagatcg tgccgttact ctccaacctg	3639
202 gacaacaaga gcgaaactcc gtcttagaaag tggaccagga caggaccaga ttttggagtc	3699
203 atggtccggt gtcctttca ctacaccatg tttagctca gacccccact ctcattcccc	3759
204 aggtggctga ccagtcctt gggggaaagcc ctggatttca gaaagagccca agtctggatc	3819
205 tgggaccctt tcccttcctt cctggcttgtt aactccacca agcccatcag aaggagaagg	3879
206 aaggagactc acctctgcct caatgtgaat cagaccctac cccaccacga tgtgccctgg	3939
207 ctgctggct ctccacctca ggccttggat aatgtgttg cctcatctat aacatgcatt	3999
208 tgtctttgtt atgtcaccac ctccctcagct ctccctctgg ccctgttct tcggggact	4059
209 cctgaaatat cagttactca gccctggcc ccaccaccta ggccactcct ccaaaggaag	4119
210 tcttaggact gggagggaaa gaaaagagg gaaaatgagt tttatgggg ctgaacgggg	4179
211 agaaaaggc atcatcgatt ctactttaga atgagagtgt gaaatagaca tttgtaaatg	4239
212 taaaacttt aaggatatac attataactg aaggagaagg tgcccaaaaa tgcaagattt	4299
213 tccacaagat tcccaagagac agaaaaatcc tctggctggc taactggaaag cattaggag	4359
214 aatccaagcg aggtcaacag agaaggcagg aatgtgtggc agatttagt aaagcttagag	4419
215 atatggcagc gaaaggatgt aaacagtgcc tgctgaatga tttccaaaga gaaaaaaaaagt	4479
216 ttggcagaag tttgtcaagt caaccaatgt agaaagctt gcttatggta ataaaaatgg	4539
217 ctcataactta tatagcactt actttgtttt caagtactgc tgtaataaaa tgctttatgc	4599
218 aaacc	4604
220 <210> SEQ ID NO: 4	
221 <211> LENGTH: 20	
222 <212> TYPE: DNA	
223 <213> ORGANISM: Artificial Sequence	
225 <220> FEATURE:	
227 <223> OTHER INFORMATION: PCR Primer	
229 <400> SEQUENCE: 4	
230 ctttcacccat ggacgacatg	20
233 <210> SEQ ID NO: 5	
234 <211> LENGTH: 19	
235 <212> TYPE: DNA	
236 <213> ORGANISM: Artificial Sequence	
238 <220> FEATURE:	
240 <223> OTHER INFORMATION: PCR Primer	
242 <400> SEQUENCE: 5	
243 cggctttggc cacgtcact	19
246 <210> SEQ ID NO: 6	
247 <211> LENGTH: 27	
248 <212> TYPE: DNA	
249 <213> ORGANISM: Artificial Sequence	
251 <220> FEATURE:	
253 <223> OTHER INFORMATION: PCR Probe	

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255 <400> SEQUENCE: 6	
256 cctggaccta tggcaaccaa gactaca	27
259 <210> SEQ ID NO: 7	
260 <211> LENGTH: 19	
261 <212> TYPE: DNA	
262 <213> ORGANISM: Artificial Sequence	
264 <220> FEATURE:	
266 <223> OTHER INFORMATION: PCR Primer	
268 <400> SEQUENCE: 7	
269 gaaaggtaag gtcggagt	19
272 <210> SEQ ID NO: 8	
273 <211> LENGTH: 20	
274 <212> TYPE: DNA	
275 <213> ORGANISM: Artificial Sequence	
277 <220> FEATURE:	
279 <223> OTHER INFORMATION: PCR Primer	
281 <400> SEQUENCE: 8	
282 gaaatggtg atggatttc	20
285 <210> SEQ ID NO: 9	
286 <211> LENGTH: 20	
287 <212> TYPE: DNA	
288 <213> ORGANISM: Artificial Sequence	
290 <220> FEATURE:	
292 <223> OTHER INFORMATION: PCR Probe	
294 <400> SEQUENCE: 9	
295 caaqtccccc gttctcagcc	20
298 <210> SEQ ID NO: 10	
299 <211> LENGTH: 77	
300 <212> TYPE: DNA	
301 <213> ORGANISM: Homo sapiens	
303 <220> FEATURE:	
306 <400> SEQUENCE: 10	
307 ctqcttgtca aaaggcgca gcggagccgt gtgcgccggg agcgccgaac agcttgtcca	60
309 cccgcggcc ggaccag	77
312 <210> SEQ ID NO: 11	
313 <211> LENGTH: 121	
314 <212> TYPE: DNA	
315 <213> ORGANISM: Homo sapiens	
317 <220> FEATURE:	
320 <400> SEQUENCE: 11	
321 qctcctgaac ctagccccgc tggacggaga aatggactct agcctcctct gatagcctca	60
323 tqccaggccc cgtgctcatt gctttgttg cctccctcaa tcctcatagc ttctctttgg	120
325 g	121
328 <210> SEQ ID NO: 12	
329 <211> LENGTH: 45000	
330 <212> TYPE: DNA	
331 <213> ORGANISM: Homo sapiens	
333 <400> SEQUENCE: 12	
334 ctgagcacca ggaaaggagc ctgaggaatc aataaggcca gagggaggaac cctgcagagc	60

VERIFICATION SUMMARY

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L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date